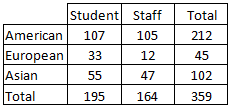
**Warm-Up**

1. A survey of cars in student and staff parking lots at a large university was taken with the following results.



1. What is the probability that a car is from the student parking lot?
2. What is the probability that a car is of American origin?
3. What is the probability that a car is of American origin and a student car?
4. What is the probability that a student car is of American origin?
5. What is the probability that an American car is in the student parking lot?
6. What is the probability that if a car is from the staff parking lot that it is of European origin?
7. What is the probability that a car is from the staff parking lot given it is of Asian origin?
8. What is the probability that a car is from the student parking lot if it is of European origin?
9. Is origin of car and who owns the car independent?
10. P(A) = 0.35 P(B) = 0.40 P(A and B) = 0.14
11. Create the Venn Diagram
12. P(A|B) =
13. P(B|A) =
14. P(A|not B) =
15. P(B|not A) =
16. P(not B|not A) =
17. P(not A|not B) =
18. P(not A|B) =
19. P(not B|A) =
20. Are A and B independent?